## Virginia Division of Consolidated Laboratory Services – Richmond, Virginia

FREE CYANIDE in Water by Microdiffusion by ASTM D4282-02 (2010)							
Facility Name:	VELAP ID						
Assessor Name:Analyst Name:		I	nspe	ction Da	ite		
Relevant Aspect of Standards	Method Reference	Υ	N	N/A	Comments		
Records Examined: SOP Number/ Revision/ Date	Analyst:						
Sample ID: Date of Sample Prepare	ation: Date of Analysis:				nalysis:		
Was samples preservation: >12 pH (with NaOH), stored in dark, and < 6°C?	10.2.1-10.2.3						
Was the KCN stock standard purchased or prepared and standardized using silver electrode per method?	8.6.1						
Are 4 calibration standards prepared including a zero added standard (initial calibration at least every 6 months or each time reagents prepped)?	11.1						
If only a continuous calibration check perform, are two standard concentrations used (+/- 10%)?	11.2 (15.8.5)						
Are 3 mL of sample pipetted into diffusion cell outer ring?	12.1.1						
Are 1.3 mL of NaOH pipetted into inner ring?	12.1.2						
Is a greased glass plate applied for airtight seal followed by the addition of 0.5 mL of CdCl into outer ring and immediately 1.0 mL K3PO4 into inner ring?	12.1.3-12.1.5						
If the cell tilted and rotated for 15 secs and placed in dark for 4.0 to 8.0 hours?	12.1.6-12.2.7						
Is sample, buffer, and color reagent each added directly to a UV cell (4-5 mixing inversions required after addition of buffer and then after color reagent)?	12.2.1-12.2.3						
Is pyridine-barbituric acid added to cell and time is NOTED and them mixing by 8-10 inversions?	12.2.4						
After 3 min is Absorbance read at 578nm?	12.2.5						
Was a duplicate and known standard analyzed each day and meet satisfactory limits as established by control chart.	15.2						
Notes/Comments:							

Method Reference	Y	N	N/A	Comments
15.3 (15.8.5)				
15.4				
15.8.3				
	15.3 (15.8.5) 15.4	15.3 (15.8.5) 15.4	15.3 (15.8.5) 15.4	15.3 (15.8.5) 15.4